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## ABSTRACT OF THE DISCLOSURE

5 A data processing system has the following construction in order to  
reduce the memory capacity and the cost. There are provided a plurality  
of processors to execute to input image data a series of processings  
including Log conversion, MTF correction, gamma correction and  
10 binarization in a prescribed order and a memory to store pixel data to be  
processed and a state flag to represent the state of processing the pixel data  
in association with each other. Processings by the plurality of processors  
are executed asynchronously. The plurality of processors share the  
15 memory.